IBM

Personal System/2 Facts and Features

October 1991

## PS/2 it!

Use this handy reference to make quick comparisons of IBM Personal System/2° models—and check their options, too. It presents basic facts and features—as well as attachment cards and enhancement products—for the entire PS/2° family.

## Personal System/2 model comparisons









Personal System/2 Model	25	25 286	30 286	35 SX			
Machine numbers	8525-001, 004, G01, G04, L01, L04		8530-E01, E41	8535-040, 043			
<b>Processor</b> Coprocessor (optional) Speed (MHz)	8086 8087 8	80286 80287 10	80286 80287 10	80386 SX Socket 20			
Memory cache	None	None	None	None			
<b>Bus architecture</b> Data path	PC 8-bit	AT® 16-bit	AT 16-bit	AT 16-bit			
User memory (RAM) <sup>4</sup> Standard-maximum on system board	512KB-640KB 640KB (L01, L04)	1MB-4MB	1MB-4MB	2MB-16MB			
System maximum (addressable)	640KB	16MB <sup>5</sup>	16MB	16MB			
Integrated functions Parallel/serial/pointing device ports Graphics Display port Built-in display Disk/diskette controller SCSI Network adapter Key lock Clock/calendar Security password	Yes MCGA No Yes Yes No Optional Yes No	Yes VGA No Yes Yes No Optional Yes (036, G36) <sup>7</sup> Yes	Yes VGA Yes No Yes No Optional Yes Yes Yes	Yes VGA Yes No Yes No Optional Yes Yes Yes			
<b>Diskette drives, 3.5-inch</b> Capacity	720KB	1.44MB	1.44MB	1.44MB			
Fixed disk storage Standard-maximum (MB)	0-20	0-30 (006, G06) <sup>9</sup> 30 (036, G36)	0-45 (E01) <sup>9</sup> 45 (E41)	0-80 (040) 40 (043)			
Average seek time	80ms	27ms (30MB)	32ms (45MB)	17ms			
Expansion slots (available)	210	210	3	3			
Power supply	90-watt (001, G01, L01) 115-watt (004, G04, L04)	124.5-watt	90-watt	118-watt			
Operating systems DOS Operating System/2®	3.3, 4.0, 5.0 No	3.3, 4.0, 5.0 SE, EE 1.2, 1.3	3.3, 4.0, 5.0 SE, EE 1.2, 1.3	3.3, 4.0, 5.0 SE, EE 1.3; OS/2 2.0			
AIX® Personal System/2	No	No	No	(when available) No			

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<sup>&</sup>lt;sup>1</sup>Processor upgrade (A81, A16).

<sup>&</sup>lt;sup>2</sup>80486 SX microprocessors on 0Hx models.

<sup>&</sup>lt;sup>3</sup>25 MHz (0Hx) models do not have a built-in coprocessor function; however, a math coprocessor 487 SX optional feature is available.













35 LS	40 SX	L40 SX	55 SX	55 LS	57 SX		
8535-14X, 24X	8540-040, 043, 045	8543-044	8555-041, 081	8555-LT0, LE0	8557-045, 049		
80386 SX Socket 20	8540-040, 043, 045  80386 SX Socket Socket 20  None  None  AT 16-bit  2MB-16MB  16MB  18MB  Yes VGA Yes VGA Yes No Yes No Yes No Optional Yes		80386 SX 80387 SX 16	80386 SX 80387 SX 16	80386 SX Socket 20		
None	None	None	None	None	None		
AT 16-bit			Micro Channel® 16-bit	Micro Channel 16-bit	Micro Channel 16-bit		
2MB-16MB	2MB-16MB	2MB-18MB	4MB-8MB	4MB-8MB	4MB-16MB		
16MB	16MB	18MB	16MB	16MB	16MB		
Yes VGA Yes No Yes No Token-Ring or Ethernet Yes Yes Yes Yes 1.44MB or 2.88MB <sup>8</sup> 0–80	VGA Yes No Yes No Optional Yes Yes Yes	VGA Yes Yes—LCD Yes No Optional <sup>6</sup> No Yes Yes	Yes VGA Yes No Yes Optional Optional Yes Yes Yes 1.44MB 40 (041) 80 (081)	Yes VGA Yes No Yes Optional Token-Ring or Ethernet Yes Yes Yes 1.44MB 0-80	Yes VGA Yes No Yes Pes Optional Yes Yes Yes 1.44MB or 2.88MB  80-880 (045) 160-960 (049)  17ms (80MB)		
1/ms	17ms	191115 (044)	16ms (80MB)	16ms (80MB)	16ms (160MB)		
2	5	None <sup>11</sup>	3	2	5		
118-watt	197-watt	Rechargeable battery pack; AC adapter	90-watt	90-watt	197-watt		
3.3, 4.0, 5.0 SE, EE 1.30.1; OS/2 2.0 (when available) <sup>13</sup> No	3.3, 4.0, 5.0 SE, EE 1.30.1; OS/2 2.0 (when available) No	3.3, 4.0, 5.0 SE, EE 1.3; OS/2 2.0 (when available) No	3.3, 4.0, 5.0 SE, EE 1.2, 1.3; OS/2 2.0 (when available) 1.2.1 (081)	3.3, 4.0, 5.0 SE, EE 1.30.1; OS/2 2.0 (when available) <sup>13</sup> No	5.0 SE, EE 1.30.1; OS/2 2.0 (when available) No		

P70 386, 70 386. <sup>6</sup>Achieving this configuration requires installation of non-IBM memory cards.
<sup>6</sup>IBM intends to provide connectivity to IBM networks using the L40 SX's external expansion port and Personal Computer AT versions of the 3278/3279 Emulation Adapter, the 5250 Emulation Adapter, and the Token-Ring Network 16/4 Adapter.

<sup>4</sup>128KB of this memory is reserved for hardware system use on Models 55 SX, 55 LS,

<sup>7</sup>Secures fixed disk only.

<sup>&</sup>lt;sup>8</sup>DOS 5.0 is required to support the 2.88MB diskette drive and the media-sense features of the 1.44MB and 2.88MB drives. <sup>9</sup>Second diskette drive and fixed disk are mutually exclusive. <sup>10</sup>One full-size, one half-size; 8525-L01, L04 models use half-size slot forToken-Ring Adapter.













P70 386	70 386	P75 486	80 386	90 XP 486	95 XP 486
8573-121	8570-081, 161, A81, A16	8573-161, 401	8580-081, 161, 321, A16, A31	8590-0H5, 0H9, 0K9, 0KF	8595-0H9, 0HF, 0KF
80386 80387 20	80386/80486 <sup>1</sup> 80387 20 (081, 161) 25 (A81, A16)	80486 Built-in 33	80386 80387 20 (081, 161, 321) 25 (A16, A31)	80486 <sup>2</sup> Built-in <sup>3</sup> 25 (0H5, 0H9) 33 (0K9, 0KF)	80486 <sup>2</sup> Built-in <sup>3</sup> 25 (0H9, 0HF) 33 (0KF)
None	64KB (A81, A16)	8KB	64KB (A16, A31)	8KB 256KB optional (0K9, 0KF)	8KB 256KB optional (0KF)
Micro Channel 32-bit	Micro Channel 32-bit	Micro Channel 32-bit	Micro Channel 32-bit	Micro Channel 32-bit	Micro Channel 32-bit
4MB-8MB	4MB-6MB (081, 161) 4MB-8MB (A81, A16)	8MB-16MB	4MB (081, 161, 321) 4MB-8MB (A16, A31)	4MB-64MB (0H5, 0H9) 8MB-64MB (0K9, 0KF)	8MB-64MB
16MB	16MB	16MB	16MB	64MB	64MB
Yes VGA Yes Yes/gas plasma Yes Optional Optional No Yes 1.44MB	Yes VGA Yes No Yes Optional Optional Optional Yes Yes Yes 1.44MB  80 (081, A81) 160 (161, A16)	Yes XGA Yes Yes/gas plasma Yes Standard Optional Yes Yes Yes 1.44MB 160 (161) 400 (401) 16ms (160MB) 11.5ms (400MB)	Yes VGA Yes No Yes Standard Optional Yes Yes Yes Yes 1.44MB  80–1.04GB (081) 160–1.12GB (161, A16) 320–1.28GB (321, A31) 17ms (80MB) 16ms (160MB)	Yes XGA Yes No Yes Standard Optional Yes Yes Yes 1.44MB  80–880 (0H5) 160–960 (0H9, 0K9) 400–1.2GB (0KF) 17ms (80MB) 16ms (160MB)	Yes XGA Yes No Yes Standard Optional Yes Yes Yes 1.44MB 160–1.7GB (0H9) 400–2.0GB (0HF, 0KF) 16ms (160MB) 11.5ms (400MB)
210	3	412	12.5ms (320MB)	11.5ms (400MB)	6
85-watt	132-watt	120-watt	225-watt 242-watt (A16, A31)	194-watt	329-watt
3.3, 4.0, 5.0 SE, EE 1.2, 1.3; OS/2 2.0 (when available) 1.2.1	3.3, 4.0, 5.0 SE, EE 1.2, 1.3; OS/2 2.0 (when available) No	3.3, 4.0, 5.0 SE, EE 1.2, 1.3; OS/2 2.0 (when available) 1.2.1	3.3, 4.0, 5.0 SE, EE 1.2, 1.3; OS/2 2.0 (when available) 1.2.1	3.3, 4.0, 5.0 SE, EE 1.2, 1.3; OS/2 2.0 (when available) 1.2.1	3.3, 4.0, 5.0 SE, EE 1.2, 1.3; OS/2 2.0 (when available) 1.2.1

Has an AT bus external expansion port instead.
 Two full-size; two half-size.
 OS/2 LAN Server 2.0 (when available) will provide DOS and OS/2 client support for Remote Program Load in Token-Ring and Ethernet networks.

## IBM PS/2 options

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Personal System/2 Model	Part no.*	25	25 28	30 28	355%	3515	405	LAOS	5554	55 L	5151	P10	1036	6 p15	8036	90 XF	95 XV
Processors/coprocessors																	
486/25 Power Platform (upgrade)	6450876												<b>u</b> 1				
486/25 Processor Upgrade	**															<b>e</b> 2	<b>m</b> 2
486/33 Processor Upgrade	**																
486/50 Processor Upgrade	ŵ ŵ																
487/20-25 MHz Math Co-Processor	6451243																
PS/2 Wizard Adapter	64F7351																
Memory							/										
128KB Memory Expansion	78X8955																
Multifunction Adapter	30F5364																
1-8MB 80286 Memory Expansion Option	6450685																
2-8MB 80286 Memory Expansion	6450609																
2-8MB 80386 Memory Expansion	6450605																
Enhanced 80386 Memory Expansion 2MB	34F3077																
Enhanced 80386 Memory Expansion 4MB	34F3011																
1, 2MB Memory Module Kits/85ns	**														-	***	***
2, 4, 8MB Memory Module Kits/80ns	**															***	***
2, 4, 8MB Memory Module Kits/70ns	**					-		•									
Storage devices																	
3.5-inch 720KB Diskette Drive	**																
3.5-inch 1.44MB Diskette Drive	**	•															
3.5-inch 2.88MB Diskette Drive	6451106			-						-	•		•		•		
5.25-inch Internal Diskette Drive	**					-					•						
5.25-inch External Diskette Drive (360KB)	4869001					-					-				•		
	4869001	•		•	•	•	•				•	•		•	•		
5.25-inch External Diskette Drive (1.2MB) 20MB Fixed Disk	4009002								•	•	•		•	•			
30MB Fixed Disk	**	•															
	**		•	•													
40MB Fixed Disk	**				•	•	•										
BOMB Fixed Disk						•											
30MB SCSI Fixed Disk	6451045																
160MB SCSI Fixed Disk	6451046														•		
320MB SCSI Fixed Disk	6451108															•	
400MB SCSI Fixed Disk	6451081										•					•	
CD-ROM Drive (Internal)	6451113														*		
External CD-ROM Drive	3510001								•		•		•			•	
2.3GB SCSI Tape Drive	6451121										•						
nternal Tape Backup Unit	30F5279				•	•							•			•	•
SCSI Storage Enclosure	35100V0											•				•	
External Enclosure for SCSI Devices	3511003										•			*		•	•
3.5-inch Rewritable Optical Drive	6450162										×				*		•
Connectivity																	
Token-Ring Network Adapter II	25F9858																
Token-Ring Network Adapter/A	69X8138										•	•					
P70 386 Token-Ring Adapter/A	39F9598																
oken-Ring Network 16/4 Adapter	25F7367																
oken-Ring Network 16/4 Adapter/A	16F1133												*	*		*	

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rinters/plotters/scanners			_														ecJet,™PS, canner is
Displays		PS/2	Monoch	nrome D	isplays 8	3504 and	8508; F	S/2 Col	or Displa	ays 8512	, 8513, 8	3514, 85	15, 8516	6, 8518.			
nhanced M-Motion Video Adapter/A	95F1091									•	•						
'ideo Capture Adapter/A	34F2785								•				•	•		•	
M-Audio Capture/Playback Adapter/A	87F9909																
1-Audio Capture/Playback Adapter	87F9908																
mage Adapter/A	****																
GA Display Adapter/A	75X5887																
Display Adapter 8514/A	1887972																
araphics and multimedia																	
Display Station Emulation Adapter/A	92X0743								•		•	•	•	•		•	
Display Station Emulation Adapter	92X0813	•		•													
system 36/38 W/S Emulation Adapter/A	69X6279												•				
nhanced 5250 Emulation Adapter Kit	30F5383	•					•										
270 Connection	74F3465																
278/79 Emulation Adapter	53F6425		•	•	•	•	•										
Data/Fax Modem	79F0198							•									
00/1200/2400 Internal Modem/A	94X1755								•								
Serial Adapter	79F0979																
serial/Parallel Adapter	6450215			•			•										
.25 Interface Co-Processor/2	16F1858								•								
RIC Portmaster Adapter/A	****								•				•	•			
RIC Multiport/2	***																
RIC Multiport	****		•			*											
Realtime Interface Co-Processor (RIC)	***																
DLC Communications Adapter	1501205		•														
SC Communications Adapter	1501204																
Dual Async Adapter/A	6451013											•					
/fulti-Protocol Adapter/A	6451003									*							
C Network Baseband Adapter/A	1501223								•	•	•	•	•	•	•		•
C Network Baseband Adapter	1501221	•					•										
C Network Adapter II/A Frequency 2, 3	96X5647/8								•	•	•	•	•				
C Network Adapter II Frequency 2, 3																	
C Network Broadband Adapter II/A	1501222												•				
C Network Broadband Adapter II	1501220																
dapter/A for Ethernet Networks	6451091								•	•	•	•	•	•	•	•	•
Performance Adapter/A	74F5130								•		•	•	•		•		•
oken-Ring Network 16/4 Trace and																	
Performance Adapter	74F5121																
oken-Ring Network 16/4 Trace and																	
Server Adapter/A	74F4140								•	•		•	•			•	•
oken-Ring Network 16/4 Busmaster																	
oken-Ring Network 16/4 Adapter/A	16F1133												•		*		
oken-Ring Network 16/4 Adapter	25F7367	•			•	•											
70 386 Token-Ring Adapter/A	39F9598													•			

Additional cards and options are available—consult your IBM marketing representative or IBM Authorized Dealer.

\*Other part numbers may be required to support a specific device or function.

\*\*There is more than one part number for this type of device, depending on specific systems supported.

\*\*\*Other memory speeds are supported—consult your IBM Authorized Dealer.

\*\*\*There is more than one part number for this type of option, depending on the amount of on-card memory and other functions desired.

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